

# Executive Summary Report

## SMOG CHECK Statewide

February 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	803,770	104,258	12.97%
Total	936,430	134,410	14.35%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	686,918	85.46%	116,852	14.54%
Total	785,067	83.84%	151,363	16.16%

#### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	420,501	85.60%	70,721	14.40%
Total	483,768	84.64%	87,776	15.36%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	15,810	1.97%
All Emissions	51,529	6.41%
All Visual	12,407	1.54%
All Functional	33,476	4.16%
OBDII	38,826	4.83%
Overall	104,258	12.97%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	645,602	84,792	13.13%	12,559	1.95%
Partially Enhanced	41,110	6,242	15.18%	977	2.38%
Basic	71,886	8,476	11.79%	1,449	2.02%
Change of Ownership	5,123	765	14.93%	186	3.63%
No Program	6	0	0.00%	0	0.00%
Unknown Program	40,043	3,983	9.95%	639	1.60%
Total Program Area	803,770	104,258	12.97%	15,810	1.97%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	491,222	69,365	14.12%	11,151	2.27%
Regular	232,794	21,992	9.45%	2,701	1.16%
Basic Area Dealer	4,158	237	5.70%	23	0.55%
Gold Shield in Enhanced Area	59,734	10,295	17.23%	1,438	2.41%
Gold Shield in Basic Area	6,247	1,056	16.90%	221	3.54%
Gold Shield in COO Area	4,110	570	13.87%	135	3.28%
Business Fleet	4	1	25.00%	0	0.00%
Permanent Fleet Registered	41	4	9.76%	1	2.44%
Referee	823	393	47.75%	107	13.00%
Government Fleet	4,635	345	7.44%	33	0.71%
Unknown Privilege	2	0	0.00%	0	0.00%
Total	803,770	104,258	12.97%	15,810	1.97%

#### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	253,611	226,283
Directed Vehicles	237,611	194,218
Total	491,222	420,501

#### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	51,317	43,404
Directed Vehicles	18,774	14,093
Total	70,091	57,497

**6. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1947	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1960	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1964	2	2	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1965	2	2	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1966	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1974	7	4	57.14%	42.86%	14.29%	42.86%	0.00%	0.00%
MY-1975	8	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	1,217	374	30.73%	21.69%	9.86%	18.00%	9.12%	0.00%
MY-1977	1,647	489	29.69%	17.67%	9.05%	20.46%	9.96%	0.00%
MY-1978	1,821	571	31.36%	18.73%	9.34%	19.44%	10.10%	0.00%
MY-1979	2,209	688	31.15%	19.60%	9.37%	19.78%	9.91%	0.00%
MY-1980	1,385	416	30.04%	20.22%	10.69%	18.77%	8.74%	0.00%
MY-1981	1,467	456	31.08%	24.20%	11.18%	17.66%	8.59%	0.00%
MY-1982	1,716	485	28.26%	22.09%	10.66%	15.97%	8.57%	0.00%
MY-1983	2,340	688	29.40%	22.09%	10.51%	16.79%	7.48%	0.00%
MY-1984	4,287	1,335	31.14%	23.89%	11.66%	17.40%	7.95%	0.00%
MY-1985	5,955	1,806	30.33%	23.22%	11.23%	17.55%	7.27%	0.00%
MY-1986	8,243	2,323	28.18%	20.89%	9.88%	16.13%	6.22%	0.00%
MY-1987	10,005	2,918	29.17%	22.21%	9.19%	15.76%	5.31%	0.00%
MY-1988	12,148	3,166	26.06%	19.48%	7.58%	14.12%	4.78%	0.00%
MY-1989	16,643	3,996	24.01%	17.20%	6.54%	13.71%	3.92%	0.00%
MY-1990	20,286	4,724	23.29%	16.62%	6.04%	12.80%	3.40%	0.00%
MY-1991	23,079	5,066	21.95%	15.82%	5.27%	11.99%	2.98%	0.00%
MY-1992	23,633	4,968	21.02%	15.15%	4.96%	10.50%	2.73%	0.00%
MY-1993	27,665	6,274	22.68%	16.90%	4.30%	10.61%	2.59%	0.00%
MY-1994	33,836	6,845	20.23%	13.60%	3.16%	10.50%	2.58%	0.00%
MY-1995	45,392	7,497	16.52%	11.24%	2.63%	7.94%	2.05%	0.00%
MY-1996	33,420	6,729	20.13%	8.33%	1.45%	2.12%	1.60%	13.99%
MY-1997	57,435	8,283	14.42%	5.41%	1.02%	1.51%	1.09%	10.25%
MY-1998	45,199	6,018	13.31%	4.21%	0.79%	1.16%	0.95%	10.05%
MY-1999	74,780	6,687	8.94%	2.09%	0.41%	0.68%	0.71%	7.01%
MY-2000	48,464	5,378	11.10%	2.20%	0.54%	0.88%	0.80%	9.14%
MY-2001	102,285	6,876	6.72%	0.77%	0.18%	0.50%	0.45%	5.87%
MY-2002	39,392	3,258	8.27%	0.95%	0.24%	0.63%	0.57%	7.33%
MY-2003	110,714	4,457	4.03%	0.34%	0.10%	0.35%	0.25%	3.53%
MY-2004	13,479	523	3.88%	0.39%	0.13%	0.33%	0.22%	3.35%
MY-2005	16,515	556	3.37%	0.21%	0.10%	0.24%	0.18%	2.94%
MY-2006	6,541	185	2.83%	0.26%	0.06%	0.23%	0.24%	2.25%
MY-2007	4,589	120	2.61%	0.13%	0.02%	0.17%	0.15%	2.31%
MY-2008	4,993	66	1.32%	0.18%	0.12%	0.14%	0.10%	0.96%
MY-2009	966	28	2.90%	1.55%	1.55%	0.21%	0.21%	1.04%
All Model Years	803,770	104,258	12.97%	6.41%	1.97%	4.16%	1.54%	4.83%

7. Referee Activity

	Certificates Issued
Certificate of Compliance	634
Certificate of Non Compliance	1
Parts Cost	152
Hardship Extensions	391
Exempt Vehicle	110
Exempted by Directive	155
Parts Exemption	16
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	1,459

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,143
Stations Locked-Out at Least Once	165
Stations Conducted at Least One Test	7,080

9. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,783	5,993
EA	Gas Endorsement	9	0
EB	Both Endorsement	50	0
EB	Gas Endorsement	512	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	414,182	49.15	49,249	50.02	463,431	49.24
Test and Repair	146,981	47.08	75,609	47.15	222,590	47.10
Test and Repair Dealer	21	62.29	4,105	49.06	4,126	49.13
Referee	348	30.00	164	30.00	512	30.00
Gold Shield in Enhanced Area	45,474	49.06	12,083	46.17	57,557	48.46
Gold Shield in Basic Area	1	73.00	6,118	40.91	6,119	40.91
Gold Shield in COO Area	36	48.53	4,036	50.39	4,072	50.38

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,265	22.00	23,595	215.14
	\$51-150	5,853	99.55		
	\$151-250	3,625	199.39		
	\$251-450	3,982	336.84		
	Over \$450	2,870	790.84		
CAP Repairs	\$0-50	125	23.96	4,457	399.73
	\$51-150	220	106.60		
	\$151-250	470	207.19		
	\$251-450	1,481	355.49		
	Over \$450	2,161	523.49		
Total Repairs	\$0-50	6,057	22.20	24,522	279.66
	\$51-150	4,742	99.22		
	\$151-250	3,610	200.59		
	\$251-450	4,905	343.67		
	Over \$450	5,208	737.92		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,210	399.73

13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	10	2	0	0	0	2	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	37	7	2	0	4	2	2	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	34	4	0	0	2	2	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	10	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	28	6	0	2	1	3	2	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	33,115	7,391	966	379	2,759	3,676	2,296	925
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	111	4	1	71	31	10	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	218	229	53	84	55	115	93	121
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	107,422	10,844	1,025	562	5,974	3,939	2,595	1,089
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	351,383	61,155	9,848	3,464	19,961	34,032	20,397	7,284
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,656	947	175	44	325	491	321	108
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	1	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	15	14	0	8	3	6	3	9
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,632	2,978	435	130	959	1,580	1,050	335
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	8	3	0	1	1	2	1	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,433	1,945	313	103	600	1,087	634	232
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,431	273	35	22	117	141	75	39
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	194	18	1	33	145	25	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	39	26	8	11	4	17	10	16
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	10,991	1,036	132	67	487	471	285	113
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair Dealer	0	1	0	0	0	1	0	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	10,719	1,628	290	115	653	871	469	239
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,599	962	207	60	318	360	420	129
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	467	73	15	7	20	28	34	14
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	4,942	941	136	75	338	296	394	198
Two Speed Idle (TSI)	Basic	Government Fleet	0	6	1	0	3	3	0	0
Two Speed Idle (TSI)	Basic	Referee	35	45	12	19	8	23	13	26
Two Speed Idle (TSI)	Basic	Test and Repair	41,777	5,197	846	270	1,831	1,742	2,158	584
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,973	196	22	13	74	50	74	29
Two Speed Idle (TSI)	Basic	Test Only	6,868	1,043	208	53	413	405	341	123
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	41	9	3	2	1	3	5	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,678	346	87	20	90	166	144	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	225	56	13	5	16	22	27	12
Two Speed Idle (TSI)	Change of Ownership	Referee	5	10	5	2	1	8	3	4
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,479	187	44	16	75	72	64	22
Two Speed Idle (TSI)	Change of Ownership	Test Only	807	152	33	13	45	70	60	23
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	248	44	5	3	33	8	6	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	460	33	4	2	20	7	5	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,613	552	89	29	291	164	158	63
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	22	6	0	11	7	5	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	13	2	1	0	0	1	0	2
Two Speed Idle (TSI)	Enhanced	Referee	47	44	11	20	18	15	7	26
Two Speed Idle (TSI)	Enhanced	Test and Repair	19,830	1,181	132	58	725	263	268	123
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	358	21	1	0	18	2	6	1
Two Speed Idle (TSI)	Enhanced	Test Only	36,601	3,154	414	138	1,853	827	679	295
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	47	5	1	1	3	1	1	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	361	52	11	2	26	17	12	6
Two Speed Idle (TSI)	Partial	Test and Repair	1,890	198	28	15	94	58	65	39
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	39	4	0	0	2	1	1	0

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Test Only	969	90	13	3	43	27	26	7
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	190	38	6	10	10	12	17	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	803	107	28	6	53	45	36	19
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	546	81	13	8	38	32	26	10
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	3	0	3	3	3	0
Two Speed Idle (TSI)	Unknown Program	Referee	65	24	18	4	2	20	6	6
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,570	363	57	23	218	94	98	40
Two Speed Idle (TSI)	Unknown Program	Test Only	2,674	193	31	7	108	59	40	17
UnKnown TestType	Enhanced	Referee	11	1	0	0	0	1	0	1